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A A the hooks screwed to the square iron slide B B, this is fitted to the socket C D, in which it can slide; the front part E of the socket is made to spring against it, so as to allow it to slide freely without shake. The socket C is fitted tight into the bench K from the underside, having a flanch D to stop it, by which it is screwed to the bench; the slide B is hollow and receives the screw F; the shoulder of the screw abuts against the iron strap G G, through which its neck passes and receives the collet H, below which it is squared into the handle I, and bound tight by the screw-nut J. With this arrangement the hook and slide A B may be either raised or depressed by turning the screw F. It will be seen that the front or springing portion E of the socket is made sufficiently low to admit of the hook being drawn down rather below the bench when necessary, and the top of the socket C is made a little short of the bench surface.

No. XIII.

IMPROVED FILLISTER.

The Sum of FIVE POUNDS was presented to Mr. C. ARUNDLE, 8 Great Mitchel Street, St. Luke's, for his Improved Fillister; a Model of which has been placed in the Society's Repository.

8 *Great Mitchel Street,*
St. Luke's.

GENTLEMEN,

IN the side fillister, which I wish to submit to your notice, I have placed the iron the reversed skew, by which means the shaving is thrown out at the mouth, while the one now in use throws the shaving against the wedge, and consequently obstructs the free working. I wish likewise to draw your kind attention to the advantages of the long stop, whereby the fillister can be kept steady when working at the extremity of the rebate; whereas the short stop, in drawing back the fillister, knocks against the wood and prevents the workman from rebating down with certainty to any given mark. In regard to the improved fence, I am emboldened, by the approbation of the trade, to submit it with confidence to your notice, as a great saving of time, and likewise wear of the tool, as the iron can be taken out for sharpening without the old method of always unscrewing the fence.

With these few explanations I humbly submit them to your superior judgment; hoping, at the same time, they will meet with your approbation.

I am, Gentlemen, &c. &c.

To the Committee of the CHARLES ARUNDLE.
Society of Arts.

One improvement consists in extending the gauge-iron *a*, fig. 1, beyond the plane-iron to *b*, where there is a binding screw by which the plane is supported so as to work steadily to the end of the cut; the screw at *a* binds the gauge-stop to a brass block within the wood, shewn by dotted lines at *c*, Fig. 2. This is adjusted by means of the swivel screw *d* passing through it.

By the second improvement the plane-iron is sloped the contrary to the usual way, as shewn by the bottom

Fig. 1.

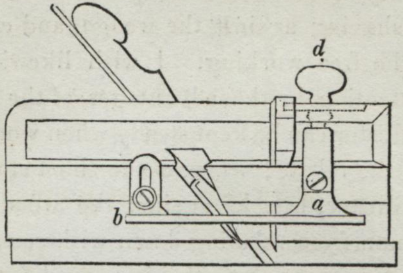


Fig. 2.

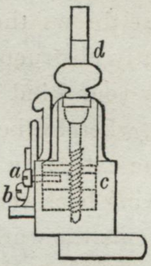
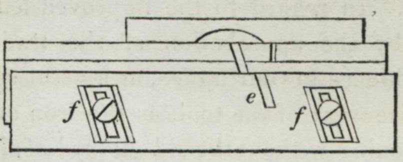


Fig. 3.



view, fig. 3, by which means the iron makes a dragging cut, and therefore always cuts smoothly; the fence has a notch *e* coinciding with the plane-iron, and the slide-holes *ff* have the same slope, so that the gap *e* will coincide with the iron at all adjustments; the iron may, therefore, be removed for sharpening, or other purposes, without its being necessary to unscrew the fence.